

	Effective Date	13-06-2023	
	Page No.	Page 1 of 11	
ĺ	Document No.	CDD	
	Document No.	Integration	
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CDD Integration Summary

CDD Integration Summary

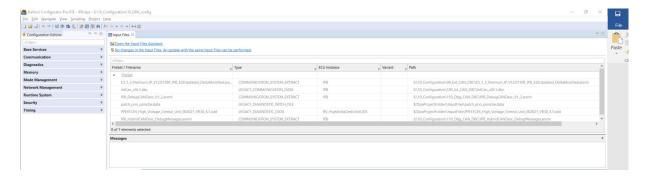


Effective Date	13-06-2023		
Page No.	Page 2 of 11		
Document No.	CDD		
Document No.	Integration		
Authored by	Ashfin.R		

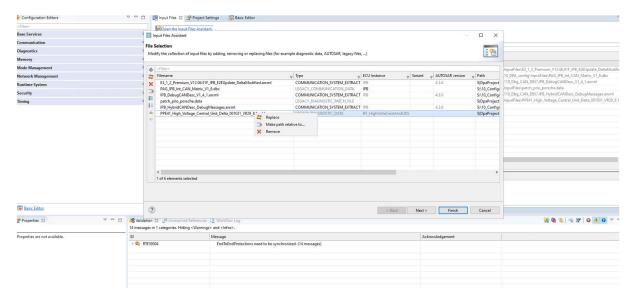
CDD Integration Summary

Summarized Steps for CDD Integration

- 1. Copy the new CDD file to S:\10_Configuration\10_DPA_config\InputFiles
- 2. Open configurator, click Projects → Input Files. In the window, click "open the Input Files Assistant"



3. Replace the old CDD with the new one.

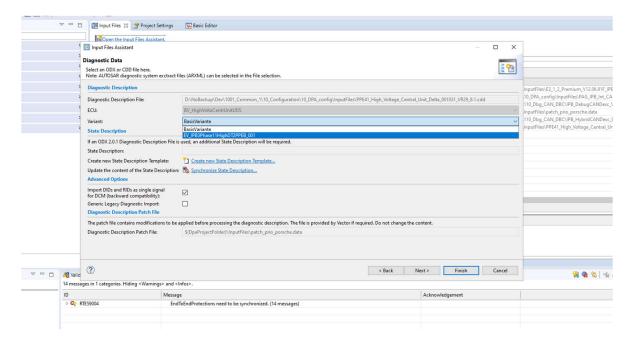


4. Select the proper variant, usually the other one than BasisVariante. Also enable "Import DIDs and RIDs as single signal" under the Advanced options.

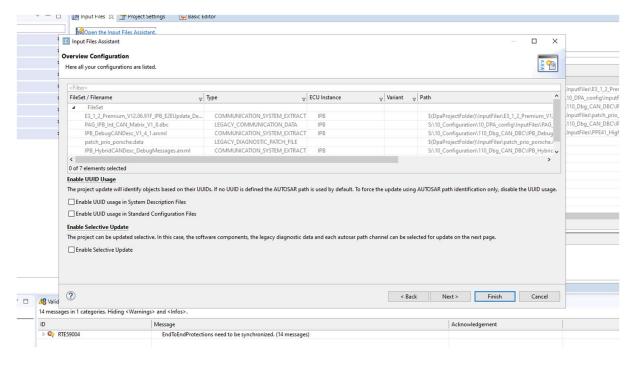


Effective Date	13-06-2023	
Page No.	Page 3 of 11	
Document No.	CDD Integration	
Authored by	Ashfin.R	

CDD Integration Summary



5. Click next. Nothing to be done in this step.

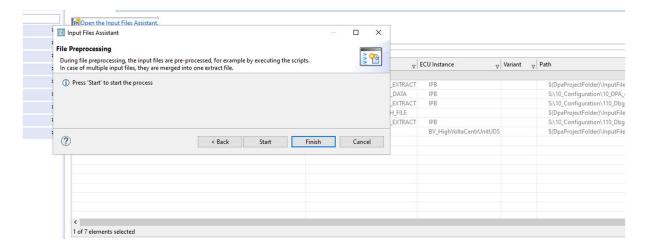


6. Click Next and select start in the next window.

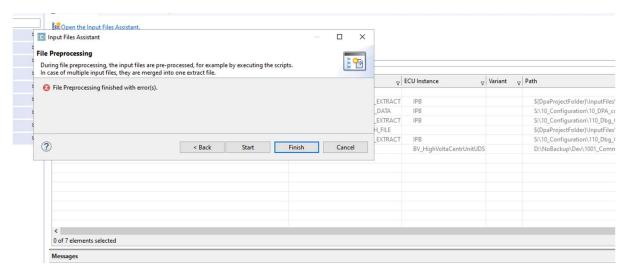


	Effective Date	13-06-2023	
	Page No.	Page 4 of 11	
Ι.	Document No.	CDD	
	Document No.	Integration	
	Authored by	Ashfin.R	

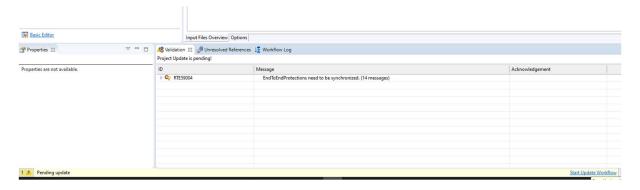
CDD Integration Summary



7. This will process for few minutes and shows the message "Finished with errors". Click on Finish.



8. Now click on "Start Update Workflow" at the bottom.

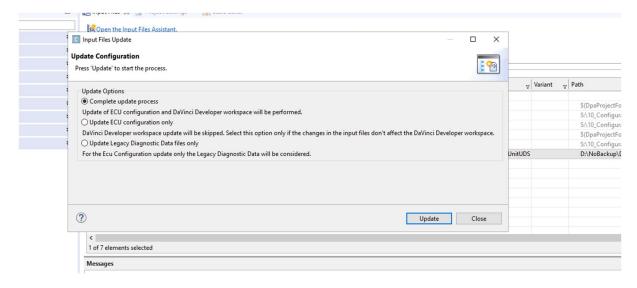


9. Select "Complete Update Process" and click on update.



	Effective Date	13-06-2023	
Page No.		Page 5 of 11	
Ι	Document No	CDD	
	Document No.		Integration
	Authored by	Ashfin.R	

CDD Integration Summary



- 10. This will take nearly 10 minutes and will finish on its own. Afterwards, go to the validation tab at the lower half and select "only show errors, not warnings/suggestions" (at top right of window).
- 11. The list of all validation errors faced so far and their resolutions are given below:

	Validation Errors in Davinci Configurator				
SI N o.	ID	Message	Description (Example Case)	Number of Errors	Resolution
1	Cfg 00 02 4	Missing reference target	The target of reference DemFreezeFrameClassRef(value=FreezeFrameClass_F reezeFrame_66de3a66) is missing.	4	The error can be resolved either by removing the unwanted DTC (as per the CDD) or by selecting the appropriate DemFreezeFramClass Ref.
2	Cfg 00 02 4	Missing reference target	The target of reference SokFmDemSignatureCreationFailedRef(value=DTC_0x 000017) is missing.	1	The missing DTC containers need to added under the DemDTCClass and DemEventparameters .



Effective Date	13-06-2023	
Page No.	Page 6 of 11	
Document No.	CDD	
Document No.	Integration	
Authored by	Ashfin.R	

CDD Integration Summary

3	RT E5 10 17	Port prototype inconsisten t	ComponentPort 'S_DataServices_Data_DiagnServi_TABROW_NeuMea su_Read_4' is not valid: - Unresolved port interface reference '/MICROSAR/Dcm_swc/Interfaces/DataServices_Data _DiagnServi_TABROW_NeuMeasu_Read_4' for PPort prototype 'S_DataServices_Data_DiagnServi_TABROW_NeuMea su_Read_4' of component type 'appldiag'.	143	These port interfaces are not required as per the CDD and hence they (along with the runnables) have to removed in the DaVinci Developer. This resolves the issue.
4	RT E5 30 23	Data Mapping inconsisten t	Signal '/Signal/SG_KS_HVZB_Challenge_M' is mapped to communication elements 'KS_Slave.SlaveComChallengeM.challengeM' and 'ECU Composition.RP_IF_SG_KS_HVZB_Challenge_M_XIX_I PB.DE_SG_KS_HVZB_Challenge_M', but their data types '/KS_GEN3/DataTypes/DT_Ks_ChallengeResponseMe ssage' and '/RecDataType/AT_SG_KS_HVZB_Challenge_M' are incompatible.	30	The resolution is done using the 'Data Mapping' tool in the DaVinci Developer (Signal View Mode). Unmap the signal groups with multiple mapping and remap them using the correct DEP/Trigger. In some cases of wrong signal mapping, they need to corrected as per the old DPA file.
5	RT E5 40 00	Connector prototype inconsisten t	Connector 'appldiag_S_DataServices_Data_DiagnServi_TABROW _HistoDuratTempeSacPhase3Read_3_Dcm_DataServi ces_Data_DiagnServi_TABROW_Histo' is not valid: - Unresolved port prototype reference '/MICROSAR/Dcm_swc/ComponentTypes/Dcm/DataS ervices_Data_DiagnServi_TABROW_HistoDuratTemp eSacPhase3Read_3' in Assembly connector 'appldiag_S_DataServices_Data_DiagnServi_TABROW _HistoDuratTempeSacPhase3Read_3_Dcm_DataSe Remove inconsistent connector appldiag_S_DataServices_Data_DiagnServi_TABROW _HistoDuratTempeSacPhase3Read_3_Dcm_DataServi ces_Data_DiagnServi_TABROW_Histo.	145	Should be resolved using the solution provided by the DaVinci Configurator. (Removing inconsistent connector)



	Effective Date	13-06-2023	
	Page No.	Page 7 of 11	
Ī	Document No.	CDD	
	Document No.	Integration	
	Authored by	Ashfin.R	

CDD Integration Summary

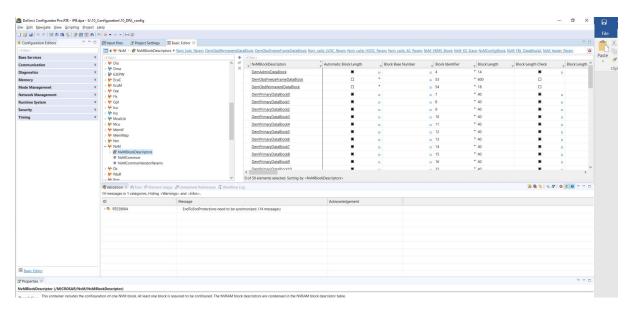
12. Once all the errors are resolved. Go to Project → Project Settings. Then in the window, go to "SWC Templates and Contract Headers". Select appldiag and click on generate (blue icon at top middle)

Note: make sure all the errors remain same in the Developer "Check Workspace" before beginning CDD integration and after all the validation error resolution.

- 13. Do validation and then generation.
- 14. Do the 'm build'. Normally some compilation errors are expected. The errors so far and their resolutions are given below:

Sl.No.	Error	Resolution	
1	Undeclared datatype	Revert the unwanted changes in IPB_datatype.arxml	
2	Wrong Datatype	Find the datatypes changes in 30_BSW (for example 30_BSW\Rte\Rte_comwrap_qm.h) and correct them in the sender-receiver interface in developer. (mainly).	
3	Undeclared DTC	These DTCs are not required as per the CDD. Update 'relevent to Customer' as 'No' in the Demwrap_cfg.xlsx and generate demwrap in the usual way.	

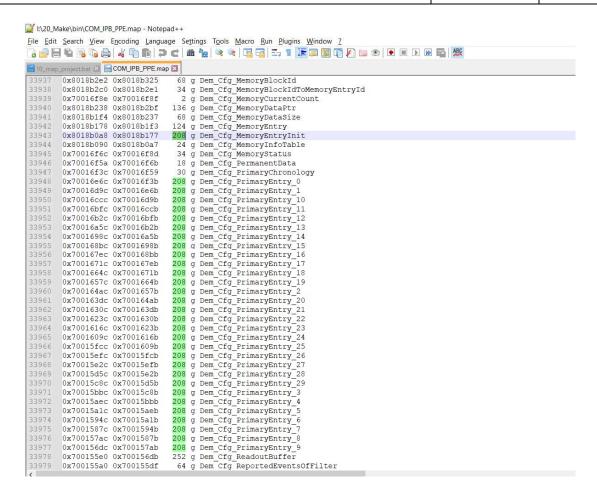
15. Once all the compilation errors are fixed. Go to Configurator \rightarrow Basic Editor \rightarrow NvM \rightarrow NvMBlockDescriptors. Here all the Block length for Dem* Blocks need to adjusted as per the S:\20_Make\bin\COM_IPB_PPE.map file.





Effective Date	13-06-2023	
Page No.	Page 8 of 11	
Document No.	CDD	
Document No.	Integration	
Authored by	Ashfin.R	

CDD Integration Summary



The block information and their naming in the map file are given below, the grey blocks are not required to be checked.

	T		
Block	Size	ppe.map	naming in ppe.map
Dem Status Data Block	1610	826	Dem_Cfg_StatusData
DemObdFreezeFrameDataBlock	600	600	Dem_Cfg_FreezeFrameData
NVM_appldiag_Dsd_LSGParam	525		
NVM_appldiag_Dsd_MOBGParam	525		
SfdA_CalcConfData	514		
NvM_FBL_DataBlock2	314	314	
NvM_FBL_DataBlock1	300		
NvM_calib_COM_Param	244		
DemPrimaryDataBlock0	208	40	Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock1	208	40	Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock2	208	40	Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock3	208	40	Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock4	208	40	Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock5	208	40	Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock6	208	40	Dem_Cfg_PrimaryEntry_#



Effective Date		13-06-2023		
İ	Page No.	Page 9 of 11		
	Document No.	CDD		
		Integration		
	Authored by	Ashfin.R		

CDD Integration Summary

NvM0x0250 NvM_VKMS_Block	12		
DemAdminDataBlock	14	14	Dem_Cfg_AdminData
NvM_CddNpmGen2	15		
NvM_KS_Slave	16		
 DemObdPermanentDataBlock	18	18	Dem_Cfg_PermanentData
SfdA_LogData	19		
SfdA PersistentData	30		SfdA_PersistentDataBuffer
NvM_appldiag_Param	30	30	Coding_appldiag_parameter_block_st
NvM_comwrap_asil_Param	30	30	Coding comwrap asil parameter block st
NvM_cm_Param	30	32	Coding_cm_parameter_block_st
NvM_ecuext_Param	30	30	Coding_ecuext_parameter_block_st
NvM heater Param	30	30	Coding heater parameter block st
NvM_history_Param	60	60	Coding_history_parameter_block_st
NvM_Obddiag	70	72	Coding_obddiag_parameter_block_st
NvM ident Param	80	80	Coding ident parameter block st
Nvm_calib_AC_Param	150	150	Coding EOL AC calib block st
Nvm_calib_HVDC_Param	150	150	Coding EOL HVDC calib block st
Nvm_calib_LVDC_Param	150	150	Coding_EVAC_parameter_block_st
Nvm Lvdc Param	200	200	Coding Lvdc parameter block st
DemPrimaryDataBlock29	208	40	Dem_Cfg_PrimaryEntry #
DemPrimaryDataBlock28	208	40	Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock27	208	40	Dem_Cfg_PrimaryEntry #
DemPrimaryDataBlock26	208	40	Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock25	208	40	Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock24	208	40	Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock23	208	40	Dem Cfg PrimaryEntry #
DemPrimaryDataBlock22	208	40	Dem_Cfg_PrimaryEntry #
DemPrimaryDataBlock21	208	40	Dem_Cfg_PrimaryEntry_# Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock20	208	40	Dem_Cfg_PrimaryEntry_# Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock19	208	40	Dem_Cfg_PrimaryEntry_# Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock18	208	40	Dem_Cfg_PrimaryEntry_# Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock17	208	40	Dem_Cfg_PrimaryEntry_# Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock15 DemPrimaryDataBlock16	208 208	40	Dem_Cfg_PrimaryEntry_#
·			
DemPrimaryDataBlock14	208	40	Dem_Cfg_PrimaryEntry_# Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock13	208	40	Dem_Cfg_PrimaryEntry_# Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock12	208	40	Dem_Cfg_PrimaryEntry_# Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock11	208	40	Dem_Cfg_PrimaryEntry_# Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock9 DemPrimaryDataBlock10	208 208	40	Dem_Cfg_PrimaryEntry_# Dem Cfg PrimaryEntry #
DemPrimaryDataBlock8			Dem_Cfg_PrimaryEntry_#
DemPrimaryDataBlock7	208 208	40	Dem_Cfg_PrimaryEntry_#



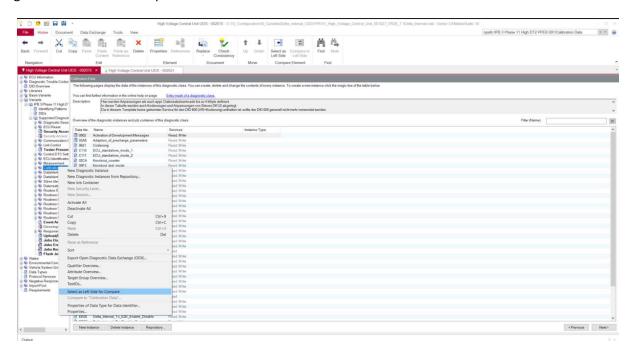
Effective Date	13-06-2023		
Page No.	Page 10 of 11		
Document No.	CDD		
	Integration		
Authored by	Ashfin.R		

CDD Integration Summary

- 16. After the above change. Do the validation, generation and compilation again.
- 17. In the appldiag.c code, the ECU Identification DIDs F19E and F1A2 data need to modified as per the new CDD name. (For example F1A2 the version data is 002 and version minor is 021 for PPE41CE4_High_Voltage_Central_Unit_002021_VR30_4.1.cdd)

```
1764
1765 #define ASM_ODX_FILE_VERSION_DATA (0x303032)
1766 #define ASM_ODX_FILE_VERSION_MINOR (0x303231)
1767
1768 /* Values for RoutineStatus */
```

- 18. Replace the old CDD file with the new one at S:\10 Configuration\40 Candela
- 19. The Delta Internal CDD need to created based on the new CDD file. Replace the old delta internal CDD file with the new one at S:\10_Configuration\40_Candela\Delta_internal_CDD.
- a. To update the new CDD as delta internal CDD, open both new CDD and the old delta internal cdd. Now go to the calibration DIDs of old Delta internal CDD, right click and select "Select as left side to compare". Go to same for new CDD, right click and select compare.



- b. A new window will open, then select to see "Show Objects only existing on the left side". This will highlight the Delta Internal DIDs that need to copied to new CDD.
- c. Go to transfer mode, select all the DIDs and select transfer. Now all the delta internal DIDs should be present in the new CDD.
- d. Save the CDD file after updating the revision history and then rename the CDD as Delta Internal CDD.



Effective Date	13-06-2023		
Page No.	Page 11 of 11		
Document No.	CDD		
	Integration		
Authored by	Ashfin.R		

CDD Integration Summary

20. Test the build thoroughly using Canoe – WinIdea Setup and make sure all the functionalities like DID services and
DTC storage are working properly. Also test the delta internal DIDs.

21. Create a ticket for FEE generation if the NVM	1 block sizes had ch	nanged with respect t	to the map file.	Reference:
https://jiraext.deltaww.com/browse/PIPB-5489				